country, reaching extremes of 111° in North Dakota and 115° in Texas.

Minimum temperatures were freezing or lower at some time during the month in all the States except a few in the extreme Southeast. The lowest reported was 7° in the mountain regions of Wyoming, and a reading as low as 38° was recorded in northern Florida.

Frosts were frequent during the month over most central and northern districts east of the Rocky Mountains and the generally cool conditions retarded the season's progress, the early advance of which, brought about by the warmth of preceding months, had been partially lost by the end.

PRECIPITATION

May, 1925, like the four preceding months, was greatly deficient in rainfall as compared with the normal over much of the country, and at the close many sections were suffering severely from lack of moisture. In the upper Mississippi Valley and adjacent portions of the Great Lakes region the rainfall was frequently the least of record in May, observations extending back from 50 to 75 years. Similar conditions, though less pronounced, prevailed in many parts of the cotton belt. Over much of the interior of the country the deficiencies for the three spring months have been large and the total precipitation has been the least ever known for those months, while in other cases all five months of the present year have shown marked deficiencies and the total fall from January to May, inclusive, has been less than ever before received during those months. On the other hand, in the far West, notably in California, where precipitation was greatly deficient during the earlier months of the rainy season, the falls were more generous and at points in the vicinity of San Francisco the month as a whole received the heaviest falls in May since 1849, when observations first began. Considerable damage from the unusual rainfalls so late in the season resulted to hay and some early fruits, but otherwise they were of much benefit.

In portions of Texas where drought had persisted for long periods, heavy rains brought some relief about the end of the first decade and again at the end of the month. Also in northern Florida and adjacent sections where locally drought had existed since the middle of March some relief was afforded by occasional showers, but the deficient rainfall of preceding months caused unusually dry conditions at the end.

Considering the States as a whole only Florida, New Mexico, California, and Oregon had monthly falls in excess of the normal, all other States showing deficiencies, these being particularly large in the States bordering on

the Mississippi River.

SNOWFALL

In California some snow fell in the higher mountains, the total falls for the month ranging up to nearly 3 feet in favorable localities, but practically all snow had melted

by the end of the month.

There were moderate falls in the higher ranges of the Rockies from Colorado northward, and light falls along the northern border and over the Appalachian Mountain districts from Virginia northward. The latter falls were mainly associated with the cold period near the middle of the last decade. In parts of western Pennsylvania depths ranging from 3 to 6 inches were measured, breaking all May precedents both in amounts and lateness of occurrence. Some snow fell at the higher elevations in the vicinity of Northfield, Vt., on the 25th, the latest of record for that locality.

Snow was observed at La Crosse, Wis., on the 24th and 27th, at Port Huron, Mich., on the 24th, and at Parkersburg, W. Va., on the 25th, all the latest of record. At Seattle, Wash., snow occurred on the 2d, the only

record of snow in May at that place.

RELATIVE HUMIDITY

As a result of the generally dry condition existing during much of the month the relative humidity was less than normal over nearly all portions of the country, the notable exceptions being the greater part of California, and locally in the middle plains, and New England, where there were slight to moderate excesses.

SEVERE LOCAL HAIL AND WIND STORMS, MAY, 1925

The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A more complete statement will appear in the Annual Report of the Chief of Bureaul

Place	Date	Time '	Width of path (yards) 1	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Cleveland, Ohio	3	7.17 p. m			\$50, 000- 75, 000	Thunderstorm	Tower of church damaged; windows broken; 11 persons injured.	Official, United States Weather Bureau.
Terre Haute, Ind	4	11.45 a. m. 12.55 p. m.				Thunderstorm and hall.	Tomato and cabbage plants beaten; grape vines and trees injured.	Do.
Parkersburg, W. Va	4	1.30 p. m.	880		500	Heavy hail		Do.
Newton, Utah	7		1,760		 	do	Damage principally to alfalfa and beets. Young chickens killed. Path 6 to 7 miles long.	Do.
San Antonio, Tex. (vicinity	8	P. m			60,000	Thunderstorm	Stinson Flying Field completely wrecked. Mi-	Do,
of). Trementina, N. Mex	9	 - <u>-</u>	 			do		Do. Do.
Kenner, La	10	8-9 a. m	l.				landing torn loose.	•
Cloutierville, La	11	5.30 p. m				Heavy hail	Several hundred acres of corn and cotton de- stroyed.	Do.
Quincy, Fla. (near)	12	3–4 p. m	6 mi		12,000- 18,000	do	Corn, cotton, and truck damaged	Do.
Ford and Clark Counties,	12	5-6 p. m	2-10 mi		50,000	Hail	Growing wheat damaged 25 per cent to total	Do.
Kans. Harper County, Okla. (north-	12	8–9 p. m	10 mi			Severe hail	Great damage to crops	Do.
ern part of). Paducah, Tex	13	4 a. m	15-20 mi.		10,000	Hail		Do.
Rogers, Ark. (w. and n. of)	13	 -	2-3 mi			Heavy hail, wind	path 30 miles. Orchards and gardens considerably injured	Do.
Springfield, Mo. (11 miles se.	13	10 a. m				and rain. Heavy hail	do	Da.
of). Deaver, Wyo	14	1.20-2 p.m.	2,640		5, 000	do	Sugar beets, gardens, and alfalfa injured; irrigat- ing canal damaged.	Da,

 $^{^{1}}$ mi, signifies miles instead of yards.

MONTHLY WEATHER REVIEW

Severe local hail and wind storms, May, 1925—Continued

Place	Date	Time	Width of path (yards)	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
Haskell County, Kans	14	6.30 p. m	1.5-2 mi		40,000	Hail	Damage principally to growing wheat	Official, United States Weather Bureau.
Ford County, Kans	14	8 p. m]			do	do	Do.
Lane County, Kans	14	9 p. m	2 mi		50,000	<u>d</u> o	do	Do.
Pawnee County, Kans	l	12.30 a. m	ı	1	100,000		do	i
Chanute, Kans	1		i	ł		Violent wind	wire service crippled.	·
Salt Lake City, Utah, and vicinity.	15	5.25 p. m		!		Thunderstorm	• • • • •	Do.
Norman, Okla	15	5.30-7 p. m.			· ·	Wind	injured.	Do.
Byron, Ind. (near)	16 16			!	10,000	Severe wind Wind	Farm buildings damaged	Do. Do.
Missouri	16			 	150,000	Wind, rain, and hail.	ville and Columbia hardest hit.	Do.
Attica (near) to Pittsfield (near), Ohio.	16		25-440			Tornado	Much damage in area covered; damage at Pitts- field estimated at \$100,000. A number of per- sons were injured.	Do.
Arkadelphia, Ark. (4 miles se. of).	17		880			Heavy hail	All crops ruined in areas covered	Do.
Laporte, Ind. (vicinity of)	17 19			-		Tornado	Many farm buildings wrecked	Do. Do.
Houghton, Mich Ehrhardt, S. C	19					Severe hail	Young crops badly injured.	Do. Do.
Mokelumne Hill, Calif		5.30 p. m		1	l	-	and grapes injured.	
Fresno, Calif	19	10.15-10.20 p. m.	3, 520	ı	1	Moderate hail	· -	Do.
Hanford, Calif	19	10.30–11 p. m.		l		Heavy hail	- •	Do.
Clovis, Calif	19	11.10-11.45 p. m.	10 mi	i :	i	do	in others.	Do.
Sioux City, Iowa, and vicinity.	19	8-9 p. m	10 mi		30, 000	Hail and rain	Greenhouses badly damaged; some damage by flooding.	Tribune (Sioux City, Iowa).
Dawson County, Nebr	20	P. m	3–4 mi			Hail	Truck, small grains, and alfalfa injured	Official, United States Weather Bureau.
Deaver, Wyo	20	m.		i I		Wind		Do.
Boone County, Nebr Butler County, Nebr	20 20	7 p. m 7.30 p. m	880 880-1,760			Haildo	Crops damaged	Do. Do.
Dodge County, Nebr	20	9.30-10.30 p. m.	6 mi		17,000	do	Crops injured; some damage to greenhouses	Do.
Boulder, Colo	21	3.30-4.30 n. m.				Wind	Telephone, telegraph, and power lines crippled	Do.
Greeley, Colo	21	4.30 p. m		1		do	Many barns and other farm buildings destroyed; electric lines seriously damaged; poultry	Do.
Terre Haute, Ind	21	1.30 p. m			1,500-2,000	Wind and hail	killed, minor crop injury. Some fruit bruised, small plants beaten, and much glass broken.	Do.
Crawfordsville, Ind. (w. of) Southern Illinois	21 21	P. m		3	5,000	Tornado	Buildings in path damaged A number of houses damaged; communication	Do. Daily News (Chicago, Ill.).
Minnesota and South Da-	22	P. m			500, 000	hail.	interrupted; trees blown down. Scores of barns, houses, silos, and windmills	Evening Huronite (Huron,
kota (parts of).					·		blown down; cattle and horses killed; wires down.	S. Dak.).
Hutchinson, Kans	23	2.30 a. m	4 mi			do	Growing wheat, fruit, and gardens suffer con- siderably; some damage to greenhouses.	Official, United States Weather Bureau.
Essex and Passaic Counties to Bergen County, N. J.	23					Wind and hail	Damage principally to crops	Do.
Greenwich, Conn Mount Vernon, N. Y	23 23	2.50-3.10			10.000	Hail Moderate hail	No material damage reported	Do. Do.
	23	p. m.			10,000	do	do	Do,
Scarsdale, N. Y Franklin, Pa	23	4 p. m 4 p. m			60, 000	Severe hail and wind.	Several buildings partially wrecked; heavy damage to crops and greenhouses; 1 person injured.	Do.
Cuyahoga County, Ohio (n.	23	4 p. m				Thunderstorm	Heavy damage to crops, fruit and greenhouses	Do.
part of). New York City, N. Y. (vicinity of).	23	6-7.30 p. m.	20 mi	2	250, 000	and hail. High wind and heavy hail.	Trees uprooted; signs torn down, auto tops ruined; damage principally to greenhouses on north shore of Nassau County.	Do.
Bridgehampton, N. Y	23	7 p. m				Moderate hail	Garden truck and windows damaged	Do.
Cutchogue, N. Y Carlisle, Pa. (near)	23 23	8 p. m	1, 760			Violent wind and	do	Do. Do.
Barbour, Taylor, Randolph, and Tucker Counties, W.	24	2 p. m		3	45, 000	thunderstorm. Destructive wind and heavy hail.	Greatest property damage at Valley Bend and Huffman; roofs, windows, and small buildings	Do.
Va. Northern Howard and Anne Arundel Counties to south- eastern Baltimore County,	24	3.50-6.00 p. m.	12 mi		75, 000	Heavy hail	damaged; two barns destroyed. Greenhouses and crops damaged; other vegeta- tion injured; traffic delayed; path 18 miles long.	Do.
Md. Porter, N. Mex. (near)	24	6.30-7 p.	2 mi			do	Fruit and forest trees damaged; minor crop	Do.
Lubbock, Tex. (vicinity of).	24	m,	1, 760			Hail	injury. All cotton near station killed; minor damage	Do
Fleming County, Ky	24		880			Hail and wind	elsewhere. Crops and gardens totally destroyed by hail; 40	Do.
Laramie, Wyo. (near)	26	3.30-3.45				Tornado and hail.	barns blown down; path 3 miles long. No damage, as storm passed over open country.	Do.
Scotts Bluff County, Nebr	27	p. m. 2,30-4 p.	3 mi			Hail	Winter wheat and alfalfa badly damaged	Do.
Gloucester County to Ocean	29	m,				do	Some fields and cranberry bogs almost totally	Do.
County, N. J.							damaged.	